Title (en)

SYSTEM AND METHOD FOR TRANSMITTING AND RECEIVING POWER AND DATA USING TIME DIVISION MULTIPLEX TRANSMISSION

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SENDEN UND EMPFANGEN VON STROMVERSORGUNG UND DATEN MITTELS ZEITMULTIPLEXÜBERTRAGUNG

Title (fr)

SYSTEME ET PROCEDE POUR EMETTRE ET RECEVOIR DE LA PUISSANCE ET DES DONNEES EN UTILISANT LA TRANSMISSION MULTIPLEX A REPARTITION DANS LE TEMPS

Publication

EP 1238473 A1 20020911 (EN)

Application

EP 00984157 A 20001207

Priority
- US 0033503 W 20001207
- US 16957599 P 19991208

Abstract (en)

[origin: US7057496B2] A multiplex bus interface enables power and data to be transmitted and received on a two wire bus. Input and output devices operate with transceivers connected to the bus to communicate with each other by placing their data on the bus within specific time slots controlled by a controller, a clock module which broadcasts data to all connected transceivers. A pulsed power waveform provides power to the transceivers and data through pulse width modulation of the pulsed waveform. Data from the transceivers is transmitted during a time slot between power pulses. Data integrity is checked by the initiating input transceiver. Errors are reported at the end of a broadcast cycle. Output transceivers use the data as appropriate for the device and condition being monitored or controlled.

IPC 1-7

H04B 3/54

IPC 8 full level

H04B 3/54 (2006.01)

CPC (source: EP US)

H04B 3/548 (2013.01 - EP US); H04B 2203/5408 (2013.01 - EP US); H04B 2203/5416 (2013.01 - EP US); H04B 2203/5458 (2013.01 - EP US); H04B 2203/547 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0143304 A1 20010614; AT E265764 T1 20040515; AU 2082801 A 20010618; DE 60010327 D1 20040603; DE 60010327 T2 20050504; EP 1238473 A1 20020911; EP 1238473 B1 20040428; ES 2219427 T3 20041201; PT 1238473 E 20040930; US 2001024441 A1 20010927; US 2005030165 A1 20050210; US 6756881 B2 20040629; US 7057496 B2 20060606

DOCDB simple family (application)

US 0033503 W 20001207; AT 00984157 T 20001207; AU 2082801 A 20001207; DE 60010327 T 20001207; EP 00984157 A 20001207; ES 00984157 T 20001207; PT 00984157 T 20001207; US 73195200 A 20001207; US 81972904 A 20040407